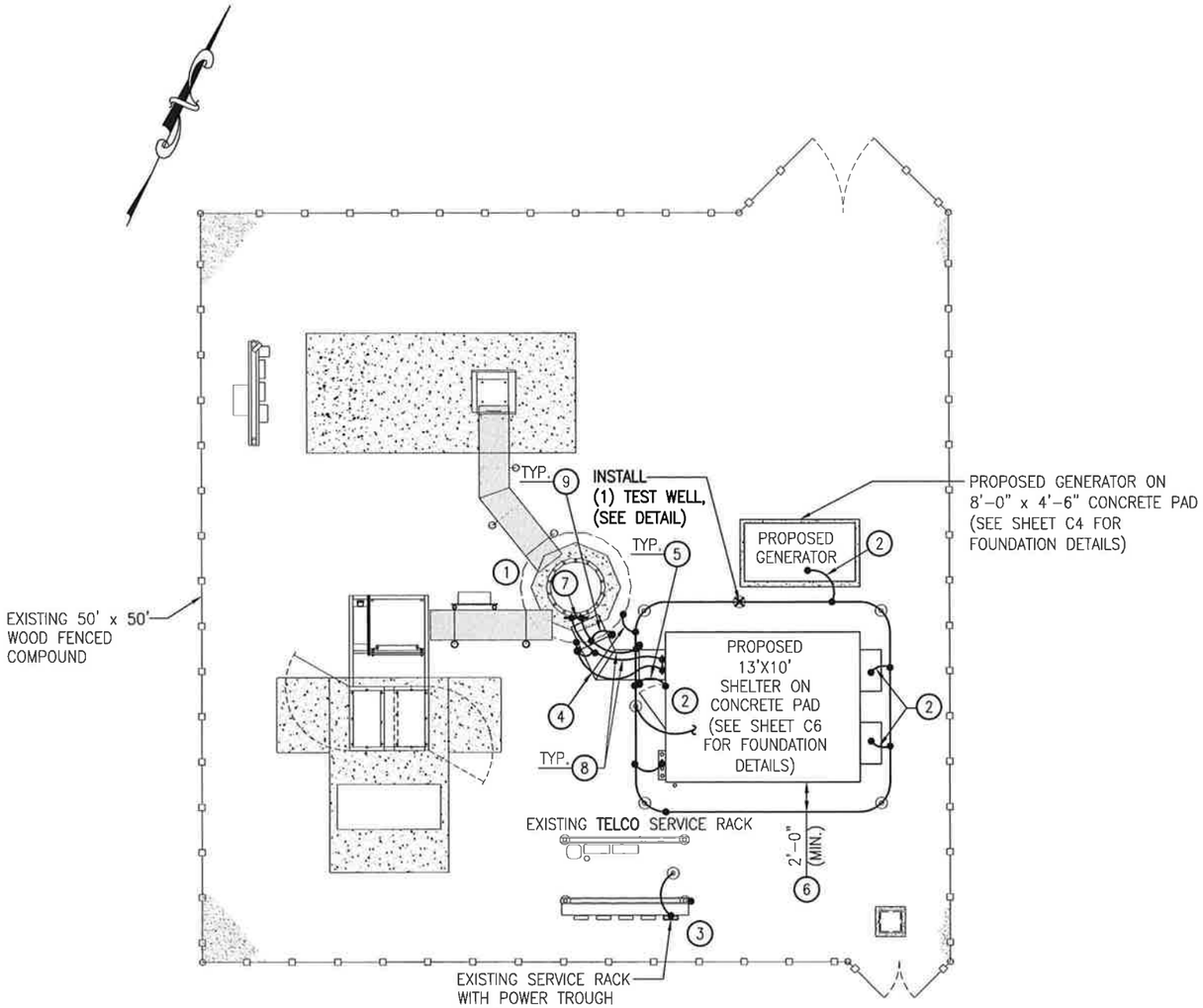



## GROUNDING LAYOUT

(SCALE: 1" = 10'-0")

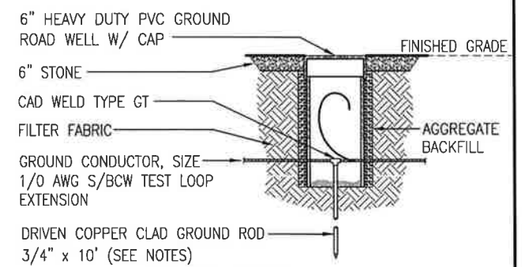
R-56 SPECIFICATIONS SHALL BE ABIDED BY ON ALL GROUNDING PERFORMED

## LEGEND

- 1/0 AWG STRANDED BARE TINNED COPPER CONDUCTOR UNLESS OTHERWISE SPECIFIED. (MIN. SIZE 1/0 AWG S/BCW)
- EXOTHERMIC WELD CONNECTION (CADWELD TYPE PT, PC)
- 3/4" x 10' COPPER CLAD STEEL GROUND ROD UNLESS OTHERWISE SPECIFIED, MAXIMUM SPACING OF 8'-0"
- 1/0 AWG S/BCW FROM TOWER TO GROUND RING (CADWELD TYPE TA)
- INSPECTION PORT

## CALL-OUT NOTES:

1. TOWER GROUND RING (APPROX. LOCATION)
2. EQUIPMENT GROUND LEAD CONNECTION; NOTE: PROVIDE (1) PIGTAIL GROUND LEAD INSIDE SHELTER.
3. NEUTRAL-GROUND BOND AT SERVICE DISCONNECT.
4. GROUND SHELTER GROUNDING RING TO TOWER GROUND RING.
5. GROUND ALL METALLIC OBJECTS ON SHELTER (DOOR FRAMES, ETC.)
6. SHELTER GROUNDING RING
7. TOWER MAIN TRANSMISSION GROUNDING BUSS BAR
8. GROUND SHELTER GROUND RING FROM SHELTER GROUND BUSS BAR TO TOWER MAIN TRANSMISSION BUSS BAR
9. ICE-BRIDGE POST GROUND




**NOTE:** VERIFY W/ PROJECT MANAGER FOR NUMBER AND LOCATIONS

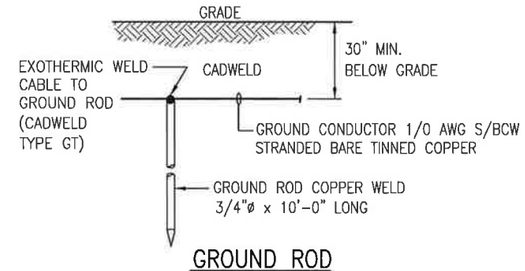
## INSPECTION PORT (TEST WELL) DETAIL

NOT TO SCALE

GROUND ROD MATERIAL LIST:
1.) 6" SCH. 40 PVC
2.) 6" PVC COUPLING (NON THREADED)
3.) 6" PVC CLEANOUT CAP

## GENERAL NOTES:

1. LAYOUT SHOWN IS REPRESENTATIVE FOR A TYPICAL SITE. SEE SITE PLAN FOR ACTUAL EQUIPMENT LAYOUT.
2. GROUND RING TO EARTH SHALL BE 5 OHMS OR LESS. ADDITIONAL GROUND RODS MAY HAVE TO BE ADDED TO THE INITIAL 3/4" x 10' RODS. USE TEMPORARY BOLTED CONNECTION TO ROD AND PERFORM GROUND RESISTANCE TEST.
3. ALL GROUNDING CONDUCTOR SWEEPS SHALL BE SMOOTH WITH NO SHARP BENDS (8" MIN. BEND RADIUS). SWEEPS SHALL BE CAD WELDED TO GROUND RING WITH PARALLEL CAD WELD.
4. ALL CAD WELDS TO BURIED GROUND RING SHALL BE OF PARALLEL TYPE. NO "TEE" CONNECTIONS TO BE USED.
5. USE DE-OX OR NOALOX COMPOUND BETWEEN ALL GROUNDING LUG CONNECTIONS. DO NOT COVER LUGS OR HARDWARE WITH COMPOUND.
6. ALL MOUNTING & CONNECTING HARDWARE FOR GROUNDING TO BE STAINLESS STEEL ONLY, NO PLATED OR GALVANIZED HARDWARE IS TO BE USED.
7. GROUNDING CONDUCTORS TO BE BURIED A MINIMUM OF 30" DEEP UNLESS OTHERWISE SPECIFIED BY LOCAL CODE.
8. ALL GROUNDING CONDUCTORS TO 1/0 AWG S/BCW CONDUCTORS UNLESS OTHERWISE NOTED. DO NOT USE COMPRESSION OR MECHANICAL TYPE LUGS.
9. USE ONLY 2-HOLE CAD WELD LUGS ON ENDS OF GROUNDING




## GROUND ROD

NOT TO SCALE

TIMOTHY L. HARDY REGISTERED ENGINEER AGRICULTURE COMMERCE STATE OF TENNESSEE

REGISTERED PROFESSIONAL ENGINEER SEAL

| ITEM | REVISIONS | BY | CHK. BY | DATE |
|---|---|---|---|---|
| | | | | |

City of GERMANTOWN, TENNESSEE
1930 GERMANTOWN ROAD SOUTH, GERMANTOWN, TN 38138

DRAWN BY: C.E. PERSONS — DATE: 08/01/12
CHECKED BY: T.L. HARDY — DATE: 08/10/12
APPROVED BY: — DATE:

HARDY ENGINEERING, INC.
ENGINEERING AND CONSULTING
209 LINDEN STREET, P.O. BOX 708
TRUSSVILLE, AL 35173
PHONE: (205) 655-1427 FAX: (205) 661-9027

DWG. NAME: GROUNDING LAYOUT
JOHNSON ROAD
GERMANTOWN, TENNESSEE
FOR
City of GERMANTOWN, TENNESSEE

CAD No: JR_C2 | SCALE: AS NOTED | DWG. No. C2